

Spherical colored polyester particles, process for their preparation and their use for powder coatings

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Abstract

The invention relates to homogeneously colored polyester particles having a mean particle size $<50 \mu\text{m}$ and a monomodal particle size distribution with a span $(=d_{90}-d_{10}/d_{50}) \leq 2.5$, which can be melted at temperatures $<200^\circ\text{C}$. to form a continuous coating, to a process for their preparation and to their use for powder coatings. In a preferred embodiment the particles comprise units of formulae (1) and (2) where X is a substituted or unsubstituted C6 to C14 aromatic radical or an alkylene, polymethylene, cycloalkane or dimethylene-cycloalkane group or a straight-chain or branched, saturated or unsaturated alkanediyl group and D is an alkylene, polymethylene, cycloalkane or dimethylene-cycloalkane group or a straight-chain or branched, saturated or unsaturated alkanediyl group

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